

AMENDMENTS IN THE CLAIMS

1. (original) A method of lapping an air bearing surface to provide a desired surface dimension, comprising:
 - (a) providing a non-abrasive lapping plate with a plurality of grooves, and a magnetic transducer having an air bearing surface with electrical components embedded therein;
 - (b) supporting the magnetic transducer such that the air bearing surface is exposed;
 - (c) dispensing a non-abrasive liquid between the air bearing surface and the lapping plate;
 - (d) contacting the air bearing surface with the lapping plate such that the air bearing surface is lapped solely by the grooves in the lapping plate, and wherein the electrical components are lapped such that they are substantially uniform in dimension relative to the air bearing surface.
2. (original) The method of claim 1 wherein step (d) comprises rotating the lapping plate relative to the air bearing surface.
3. (original) The method of claim 1 wherein step (a) comprises forming the grooves in the lapping plate in configurations of pericycloids, epicycloids, hypocycloids and circles.
4. (original) The method of claim 1, further comprising the step of interrupting a planarity of a lapping surface of the lapping plate with the grooves in the lapping plate surface such that a high percentage of lapping surface engagement is provided by the grooves to reduce a hydrodynamic film from the liquid.
5. (original) The method of claim 1 wherein step (a) comprises providing the grooves in approximately 0 to 5% of a surface of the lapping plate.